2

3

1

2

1

2

3

5

## **CLAIMS**

What is claimed is:

- A method of forming an oil in water microemulsion, comprising the steps of:
  providing at least one surfactant selected from the group consisting of non-ionic
  ethoxylated surfactants;
  providing an oil; and
  mixing said surfactant and said oil to form a microemulsion.
- 2. The method of forming an oil in water microemulsion of claim 1, wherein said surfactant is a single surfactant.
- 3. The method of forming an oil in water microemulsion of claim 1, wherein said oil varies from 0.001 to 5 %, weight by weight of the final product (w/wf).
- 4. The method of forming an oil in water microemulsion of claim 1, wherein said surfactant is selected from the group of alkyl phenol ethoxylates, wherein said alkyl group contains 8 to 12 carbons and said ethoxylate contains an average of 4 to 12 ethoxylate groups.
- 5. The method of forming an oil in water microemulsion of claim 1, wherein said surfactant is a nonyl phenol ethoxylate.

1

2

1

2

1

2

1

2

- 6. The method of forming an oil in water microemulsion of claim 1, wherein said surfactant is a mixed surfactant comprising a nonyl phenol ethoxylate and an ionic surfactant.
  - 7. The method of forming an oil in water microemulsion of claim 6, wherein said ionic surfactant is an alkyl benzene sulfonate.
    - 8. The method of forming an oil in water microemulsion of claim 7, wherein said surfactants are used in the range of .003 to 25 % w/wf.
    - 9. The method of forming an oil in water microemulsion of claim 7, wherein said surfactant to said oil ratio is at least 3:1 w/w.
    - 10. The method of forming an oil in water microemulsion of claim 1, wherein said oil varies from 5 to 15 % w/wf, whereby a concentrate is formed.
    - 11. The method of forming an oil in water microemulsion of claim 10, wherein said surfactants total 15 to 60 % w/wf.
- 12. The method of forming an oil in water microemulsion of claim 6, wherein said mixed surfactant includes at least one alkyl alcohol having 1 to 7 carbons.

16

1

2

1

2

1

2

3

- 13. The method of forming an oil in water microemulsion of claim 1, wherein an oil droplet size ranges from approximately 5 nm to 80 nm.
- 14. The method of using a microemulsion formed by the method of claim 1, further comprising the step of using said microemusion for at least one of the group consisting of cosmetics, toiletries, paints, varnishes, agrochemicals, medicines and pesticides.
  - 15. An oil in water microemulsion, comprising:

at least one surfactant selected from the group consisting of non-ionic ethoxylated surfactants; and

at least one oil.

- 16. The oil in water microemulsion of claim 15, wherein said at least one surfactant is a single surfactant.
- 17. The oil in water microemulsion of claim 15, wherein said at least one oil is derived from at least one tree.
- 1 18. The oil in water microemulsion of claim 17, wherein said tree comprises the Neem 2 Tree.